



THE UNIVERSITY *of* EDINBURGH

## Edinburgh Research Explorer

### **Intranasal application of vasopressin fails to elicit changes in brain immediate early gene expression, neural activity and behavioral performance of rats**

**Citation for published version:**

Ludwig, M, Tobin, V, Callahan, MF, Papadaki, E, Becker, A, Engelmann, M & Leng, G 2013, 'Intranasal application of vasopressin fails to elicit changes in brain immediate early gene expression, neural activity and behavioral performance of rats', *Journal of Neuroendocrinology*, vol. 25, no. 7, pp. 655-667.  
<https://doi.org/10.1111/jne.12046>

**Digital Object Identifier (DOI):**

[10.1111/jne.12046](https://doi.org/10.1111/jne.12046)

**Link:**

[Link to publication record in Edinburgh Research Explorer](#)

**Document Version:**

Peer reviewed version

**Published In:**

Journal of Neuroendocrinology

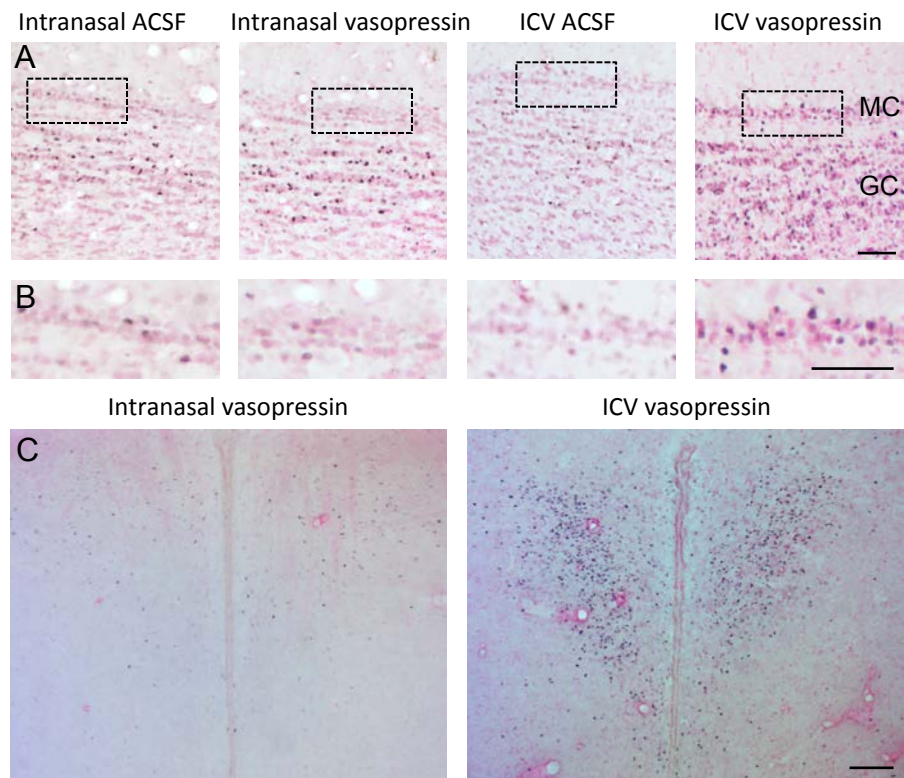
**General rights**

Copyright for the publications made accessible via the Edinburgh Research Explorer is retained by the author(s) and / or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

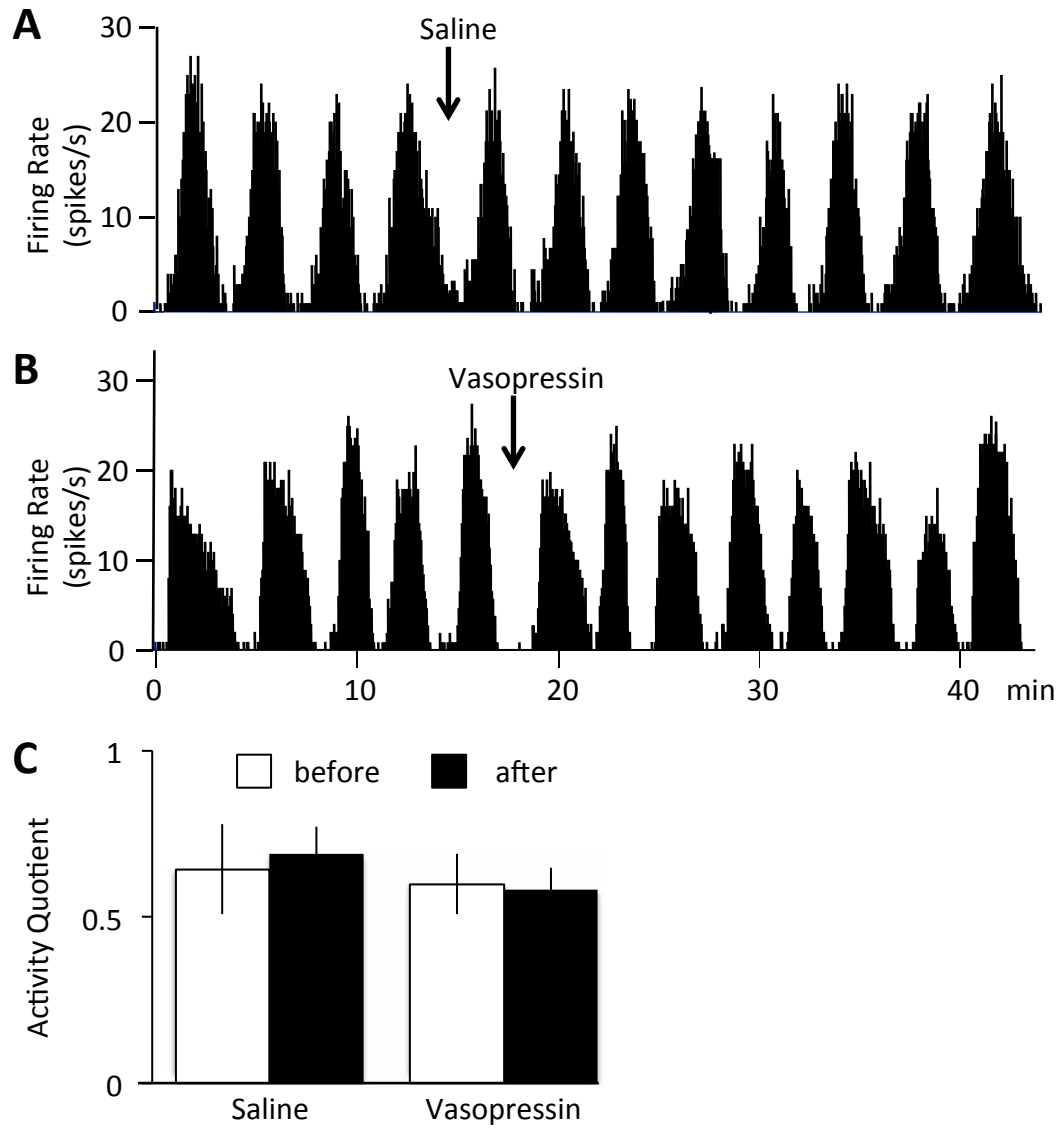
**Take down policy**

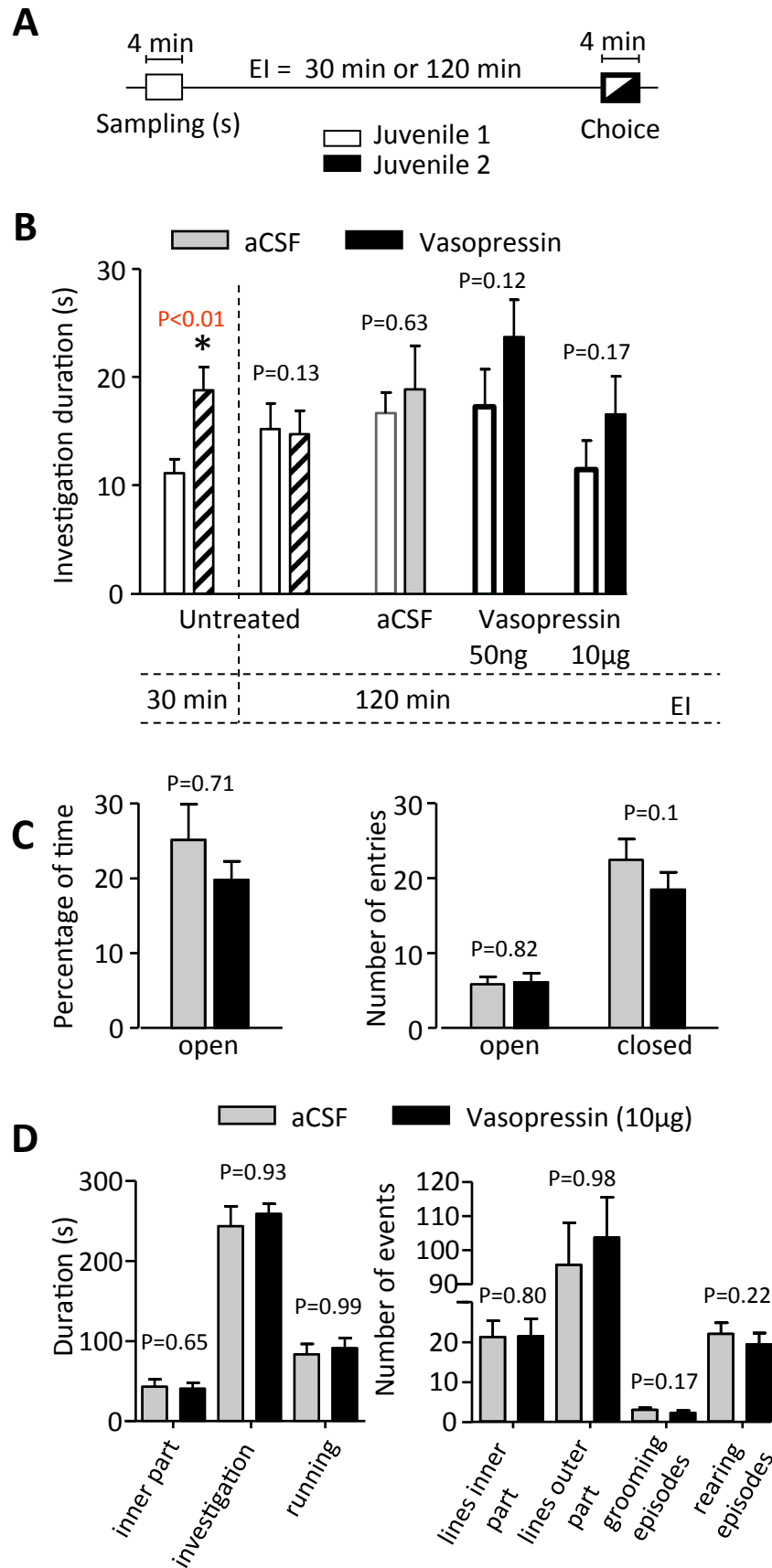
The University of Edinburgh has made every reasonable effort to ensure that Edinburgh Research Explorer content complies with UK legislation. If you believe that the public display of this file breaches copyright please contact [openaccess@ed.ac.uk](mailto:openaccess@ed.ac.uk) providing details, and we will remove access to the work immediately and investigate your claim.



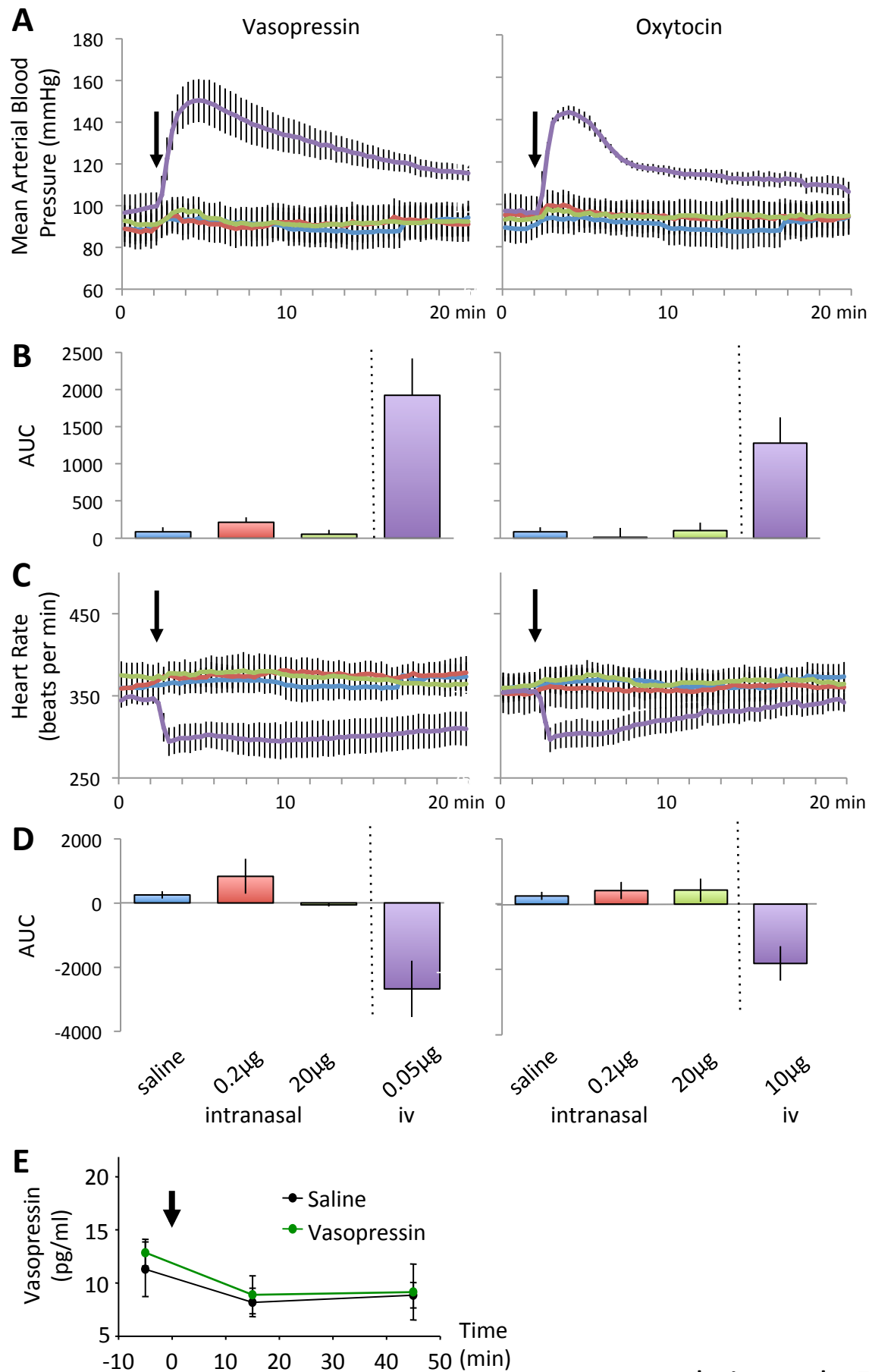


Ludwig et al., Fig. 1





Ludwig et al., Fig. 3



Ludwig et al., Fig. 4